Haoying Zhang

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Palaiseau, Ile de France - 91300, France

PhD student with expertise in privacy-enhancing technologies with time series data. I am looking for a research visit starting in February 2026, or a post-doc starting in August 2026, based in Montreal or its surrounding area, in Canada.

EDUCATION

• Inria de Saclay and INSA

September 2023 - August 2026

Palaiseau, France

PhD in Computer Science (Expected)

Privacy-Enhancing Technologies with Time Series

• Supervisors: Benjamin Nguyen, Nicolas Anciaux

• Institut National des Sciences Appliquées (INSA)

September 2018 - Juin 2023

Rennes, France

Engineering Master's Degree (Double Degree with Master of Research in Cybersecurity)
• Major: Computer Science

o Grade: 15.17/20 (Rank: 3/74)

EXPERIENCE

• ENSTA Paris [�]

September 2023 - Present

Palaiseau, France

Teaching Assistant
• Taught Oracle Database to second-year engineering students

• Prepared materials (VMs, servers) and support students with exercises and individual problem-solving

• INSA CVL [�]

Research Intern

Intern

Bourges, France

• Research internship with topic "Privacy-Preserving Graph Processing"

• Developed a framework called PUZZLE to compute PageRank on large distributed graph in a privacy-preserving way (with Differential Privacy guarantee)

NAGRA NexGuard [)

May 2022 - August 2022

Rennes, France

Engineering internship with topic "High Performance Computing for Forensic Watermarking Algorithms"

- Implemented Single Instruction Multiple Data (SIMD) architectures with vector processors on x86 and ARM
- Integrated SIMD architectures into forensic watermarking algorithms to achieve high performance on multiple platforms

• **Huawei [** July 2021 - September 2021

Intern Beijing, China

- Engineering internship with topic "Routing Protocol Testing"
- Learnt 8+ TCP/IP routing protocols
- Designed the topologies and implemented automatic tests

PUBLICATIONS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION

- [J.1] Haoying Zhang, et al. (2025). TELESAFE: Detecting Private/Work Boundary Crossings in Energy Consumption Trails in Telework. In VLDB Endowment, pp. 1565 - 1578. ACM. 29 August 2025. DOI: 10.14778/3725688.3725690
- [C.1] Haoying Zhang, et al. (2025). **Demo: Exploring Utility and Attackability Trade-offs in Local Differential Privacy**. Accepted for publication in *CCS* 2025.
- [C.2] Haoying Zhang, et al. (2026). **Privacy Attacks on Matrix Profiles via Reconstruction Techniques**. Accepted for publication in *PETS* 2026.
- [S.1] Haoying ZHang, et al. (2026). **Demo of TELESAFE: Monitoring Energy Consumption for Work–Life Boundaries in Telework.** Submitted in *ICDM* 2026.

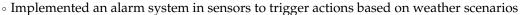
SKILLS

- Programming Languages: Assembly, C, C++, Python, Java, OCaml, Perl, Ruby, JavaScript, PHP
- Database Systems: MySQL, Oracle
- Machine Learning: Classification algorithms, RNNs, CNNs, GANs, etc
- Cloud & Containerization: Docker, Kubernetes
- DevOps: Git

PROJECTS

• Mycelium September 2021 - Juin 2022

Tools: Embedded system, C++, LoRaWAN, Raspberry Pi, Docker, Kubernetes





- Developed a Kubernetes-based fog infrastructure on a Raspberry Pi cluster for storing and processing sensor data transmitted via LoRaWAN, enabling monitoring of natural environments in Rennes
- · Collaborated with scientists and engineers from Geosciences Rennes and Clermont-Ferrand University

• Exchange Rate Reminder

August 2020

Tools: Python, InfluxDB

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- Developed a web-scraping application with data processing and storage in InfluxDB
- Implemented an email notification system triggered by exchange rate drops

• Chessboard game August 2020

Tools: JavaFx



VOLUNTEER EXPERIENCE

• Mathematics and Physics Tutor

September 2018 - Feburary 2019

INSA

• Tutored fellow students in mathematics and physics through classes and Q&A sessions

· Volunteer at the Planetarium

August 2014

Beijing Planetarium

• Guided visitors through exhibits and provided telescope demonstrations

ADDITIONAL INFORMATION

Languages: Chinese (Mother tongue), French (Fluent: DELF B2, 85/100), English (Fluent: TOEIC, 945/990) **Interests:** Snowboarding, Badminton, Running, Astronomy